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Wearable Sensors for Biomechanical Monitoring in Sport

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Message from the Guest Editors

Dear Colleagues,

Sports biomechanics is the application of the principles of biomechanics to the study of human movement in sports and exercise to quantitatively evaluate performance and reduce injury. With advancements in technology, wearable sensors now offer the opportunity to measure the biomechanics of human movement in sports and athletic environments while maintaining the technical movements of athletes. The kinematics, kinetics, and muscle activity of human movement can all be determined with the instrumentation of wearable sensors, which can be applied to sports biomechanics in order to improve performance and minimize the risk of injury. This Special Issue aims to highlight the most recent research regarding the use of wearable sensors and their applications in sports biomechanics to quantitatively measure human movements. The scope of this Special Issue includes, but is not limited to, the following topics:

- Sports biomechanics
- Human movement analysis
- Wearable sensors
- Inertial measurement unit
- Accelerometer
- Gyroscope
- Electromyography

Prof. Dr. Darren Stefanyshyn

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Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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